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(REV. 5-93)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY'S DOCKET NUMBER

5860

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO.

(If known, see 37 CFR 1.50)

09/029251

INTERNATIONAL APPLICATION NO.

PCT/FR96/01346

INTERNATIONAL FILING DATE

September 4, 1996

PRIORITY DATE CLAIMED

September 5, 1995

TITLE OF INVENTION

Multilumen Catheter Particularly For Hemodialysis

APPLICANT(S) FOR DO/EO/US

Thierry Pourchez

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.

1. ☒ This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3. ☐ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2)):
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)):
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the International Preliminary Examination Report Under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

11. ☒ An Information Disclosure Statement Under 37 CFR 1.97 and 1.98
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A FIRST preliminary amendment.
- ☐ A SECOND or SUBSEQUENT preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:
Verified Statement (Declaration) Claiming Small Entity Status (37CFR 1.9(f) and 1.27(b) - Independent Inventor
Information Disclosure References

U.S. APPLICATION NO. 1
(If known, see 37 C.F.R. 1.50)

INTERNATIONAL APPLICATION NO.

ATTORNEY DOCKET NO.

PCT/FR96/01346

5860

17. ☒ The following fees are submitted:

Basic National Fee (37 CFR 1.492(a)(1)-(5)):

- Search Report has been prepared by the EPO or JPO.....\$ 930.00
- International preliminary examination fee paid to USPTO (37 CFR 1.482)..\$ 720.00
- No international preliminary examination fee paid to USPTO (37 CFR 1.482),
but international search fee paid to USPTO (37 CFR 1.445(a)(2)).....\$ 790.00
- Neither international preliminary examination fee (37 CFR 1.482), nor
international search fee (37 CFR 1.445(a)(2)) paid to USPTO.....\$1070.00
- International preliminary examination fee paid to USPTO (37 CFR 1.482)
and all claims satisfied provisions of PCT Article 33(2)-(4).....\$ 98.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$ 930.00

Surcharge of \$130.00 For furnishing the oath or declaration later than ☐ 20 ☐ 30
months from the earliest claimed priority date (37 CFR 1.492(e)).

Claims	Number Filed	Number Extra	Rate		
Total Claims	3 - 20 *	0	x \$ 22.00	\$	
Independent Claims	1 - 3 *	0	x \$	\$	
Multiple dependent claim(s) (if applicable)			+ \$	\$	

TOTAL OF ABOVE CALCULATIONS =

\$ 930.00

Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement
must also be filed. (Note 37 CFR 1.9, 1.27, 1.28.)

\$ 465.00

SUBTOTAL =

\$ 465.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30
months from the earliest claimed priority date (37 CFR 1.492(f)).

\$

TOTAL NATIONAL FEE =

\$ 465.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be
accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +

\$

TOTAL FEES ENCLOSED =

\$ 465.00

Amount to be:
refunded

\$

charged

\$

- a. ☒ A check in the amount of \$465.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. 11-0610 in the amount of \$ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
overpayment to Deposit Account No. 11-0610. A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive [37 CFR
1.137(a) or (b)] must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

John C. Kerins, Esq.
Kerkam, Stowell, Kondracki & Clarke P.C.
5203 Leesburg Pike, Suite 600
Falls Church, VA 22041

SIGNATURE

John C. Kerins

NAME

32,421
REGISTRATION NO.

5012208 5 17 1 1998
Docket: 5860

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

Applicant: Thierry POURCHEZ
International
Application No.: PCT/FR96/01346
International
Filing Date: September 4, 1996
U.S. Serial No.: To Be Assigned
U.S. Filing Date: March 5, 1998
For: Multilumen Catheter Particularly For Hemodialysis

Falls Church, Virginia
March 5, 1998

PRELIMINARY AMENDMENT

Honorable Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

This Preliminary Amendment is filed
concurrently with the filing of a Request for entry into
national stage examination of the subject patent
application. Please amend the application as indicated
below.

IN THE SPECIFICATION:

At page 1, after the title of the invention,
please insert the following headings:

--BACKGROUND OF THE INVENTION

1. Field of the Invention--.

Page 1, before line 9, please insert the following heading:

--2. Description of Related Art--.

Page 1, before line 27, please insert the following heading:

--SUMMARY OF THE INVENTION--.

Page 2, before line 6, please insert the following heading:

--BRIEF DESCRIPTION OF THE DRAWING--.

Page 2, line 8, after "drawing", delete ", which represents a", and replace with --.---

Page 2, line 9, before "side", please insert --FIG. 1 is a--.

Page 2, before line 11, please insert the following heading:

--DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT--.

IN THE CLAIMS:

- 1 1. (Amended) A multilumen catheter (1) [of a
- 2 type] comprising:
- 3 - at least two inner lumens (2, 3), defined
- 4 by a wall (2A, 3A), each of [which is intended for
- 5 guiding] said inner lumens being adapted to guide at
- 6 least one fluid (4),
- 7 - two opposite ends (5, 6), a first one of
- 8 which (5) is [called] a distal end, [since it is] said
- 9 distal end specifically intended to be placed in a cavity

10 of a patient's body [(not represented) in order] and
11 adapted to deliver and/or sample the fluid (4) to or from
12 [it] said distal end through at least one channel (7, 8),
13 [the other] a second end (6) being [called] a proximal
14 end, [since it is specifically intended] said proximal
15 end adapted to be connected to a means (9) for
16 circulating fluid (4), [such as a fluid perfusing and/or
17 extracting means,]

18 [this catheter being characterized in that,
19 in order to constitute its] said distal end of said
20 catheter, [it comprises beyond a so-called] having a
21 dividing point (12) located at a predetermined distance
22 D1 from [its] said proximal end (6), and having at least
23 two distinct elongated end portions (13, 14) extending
24 from said dividing point [which:]

25 [-] wherein said at least two end portions,
26 in at least one rest position of the catheter, extend
27 substantially parallel to [the] a longitudinal axis of
28 [this] said catheter, each over a predetermined length
29 (L1, L2) measurable between a free end of said distal end
30 (13A, 14A) and the dividing point (12),

31 [-] wherein said at least two end portions
32 are each made of flexible material so as to be flexible
33 at least under the effect of a lateral action due to the
34 displacement of a fluid, and

35 [- contain] wherein each of said at least
36 two end portions contains at least one segment of at

37 least one of the lumens (2, 3) and [have] has at least
38 one channel (7, 8) for delivering and/or sampling the
39 fluid.

1 2. (Amended) The multilumen catheter
2 according to claim 1, [characterized in that] wherein:
3 - [the] each of said at least two end
4 portions [have] has a different [lengths] length (L1,
5 L2), and
6 - the channels with which [these] each of
7 said at least two end portions are equipped are [disposed
8 so that each of them] so constructed and arranged such
9 that each emerges at a different [level of] position
10 along the catheter.

1 3. (Amended) The multilumen catheter
2 according to claim 2, [characterized in that] wherein the
3 channels with which the at least two end portions are
4 equipped are disposed in a group on each end portion, and
5 [these] wherein said groups are disposed at different
6 [levels of] positions along the catheter.

REMARKS


This Preliminary Amendment is filed to add appropriate headings in the specification to conform the specification to U.S. standards, and to amend the claims

to bring the claims into a format more familiar to U.S.
practice.

Early and favorable consideration on the merits
of this application is respectfully requested.

Respectfully submitted,

KERKAM, STOWELL, KONDRACKI
& CLARKE, P.C.

By: 
John C. Kerins
Reg. No. 32,421

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10/09/63
100-109

MULTILUMEN CATHETER, PARTICULARLY FOR HEMODIALYSIS

The invention relates to a device called a multilumen catheter, used for the circulation of a least one fluid between a cavity of a patient's body and a means for circulating this fluid such as a fluid perfusing and/or extracting means.

The invention relates more particularly, though not exclusively, to a catheter for hemodialysis.

The term multilumen catheter designates a catheter comprising at least two inner lumens defined by a wall, each of which is intended for guiding at least one fluid.

A catheter of this type also comprises two opposite ends, one of which is called a distal end since it is specifically intended to be placed in a cavity of a patient's body in order to deliver and/or sample the fluid to or from it through at least one channel, the other being called a proximal end, since it is specifically intended to be connected to a fluid circulating means such as a fluid perfusing and/or extracting means.

With the known catheters, the risk of clogging substances being deposited on the surfaces of the perfusing and/or extracting channels is substantial.

One object of the invention is to obtain a catheter having a risk of obstruction by clogging that is substantially reduced relative to the known catheters.

To this end, the subject of the invention is a catheter of the above-mentioned type, this catheter being characterized in that in order to constitute its distal end, it comprises, beyond a so-called dividing point located at a predetermined distance from its proximal end, at least two distinct elongated end portions which:

- in at least one rest position of the catheter, extend substantially parallel to the longitudinal axis of this catheter, each over a predetermined length measurable between a free end and the dividing point,
- are each made of flexible material so as to be

flexible at least under the effect of a lateral action due to the displacement of a fluid,

- contain at least one segment of at least one of the lumens and have at least one channel for delivering and/or sampling the fluid.

The invention will be clearly understood by reading the following description given as a non-limiting example in reference to the appended drawing, which represents a side view of one embodiment of a catheter according to the invention.

The drawing shows an elongated device called a catheter 1 comprising:

- at least two inner lumens 2, 3, defined by a wall 2A, 3A, each of which is intended for guiding at least one fluid 3,
- two opposite ends 5, 6, one of which 5 is called a distal end, since it is specifically intended to be placed inside a cavity of a patient's body (not represented) in order to deliver and/or sample the fluid 4 to or from it through at least one channel 7, 8, the other end 6 being called the proximal end, since it is specifically intended to be connected to a means 9 for circulating a fluid 4, such as a fluid perfusing and/or extracting means.

The fluid 4 is represented by arrows 4.

As shown, the channels 7, 8 are comprised of perforations disposed in the wall of the catheter that defines each of the lumens 2, 3.

These channels allow either the delivery into the area surrounding the catheter of a fluid contained in a lumen of this catheter, or the entry into a lumen of this catheter of a surrounding fluid.

For example, at least one of the lumens is intended for perfusing a fluid and at least one other lumen is intended for extracting fluid.

Also as shown, the lumens 2, 3 for circulating the fluid 4 are for example comprised of juxtaposed lumens,

but this is not limiting for the invention.

The dimensions and proportions of the catheter represented are not limiting for the invention.

5 At its proximal end 6, the catheter has elements 10, 11 for connecting each of the lumens 2, 3 it comprises to the means 9 for circulating fluid 4.

10 As neither the circulating means 9 nor the elements 10, 11 for connecting to this means 9 are subjects of the invention, these elements 10, 11 and the means 9 are not represented in detail.

It is at the distal end 5 that the catheter of the invention is noteworthy.

15 In effect, in order to constitute its distal end, the catheter comprises, beyond a so-called dividing point 12 located at a predetermined distance D1 from its proximal end 6, at least two distinct elongated end portions 13, 14 which:

20 - in at least one rest position of the catheter, extend substantially parallel to the longitudinal axis of this catheter, each over a predetermined length L1, L2 measurable between a free end 13A, 14A, and the dividing point 12,

25 - are each made of flexible material so as to be flexible at least under the effect of a lateral action due to the displacement of a fluid,

- contain at least one segment of at least one of the lumens 2, 3 and has at least one channel 7, 8 for delivering and/or sampling the fluid.

30 These technical characteristics, when the distal end of the catheter is placed on the axis of a fluid flow such as a bodily fluid flow, allow the end portions, due to their flexibility and independence, to act like a sail set parallel to the wind and thus are practically not subject to obstruction.

35 In effect, the agitation and flexion of these end portions considerably reduces the risk of clogging substances being deposited on the surfaces of the

perfusing and/or extracting channels with which these end portions are equipped.

5 According to another noteworthy characteristic, the end portions have different lengths L1, L2, and the channels with which these end portions are equipped are disposed so that each of them emerges at a different level of the catheter.

10 According to another characteristic of the invention, the channels with which the end portions are equipped are disposed in a group on each end portion, and these groups are disposed at different levels of the catheter.

CLAIMS

- 1 1. A multilumen catheter (1) of a type comprising:
2 - at least two inner lumens (2, 3), defined by a wall
3 (2A, 3A), each of which is intended for guiding at least
4 one fluid (4),
5 - two opposite ends (5, 6), one of which (5) is called
6 a distal end, since it is specifically intended to be
7 placed in a cavity of a patient's body (not represented)
8 in order to deliver and/or sample the fluid (4) to or
9 from it through at least one channel (7, 8), the other
10 end (6) being called a proximal end, since it is
11 specifically intended to be connected to a means (9) for
12 circulating fluid (4), such as a fluid perfusing and/or
13 extracting means,
14 this catheter being characterized in that, in order to
15 constitute its distal end, it comprises beyond a so-
16 called dividing point (12) located at a predetermined
17 distance D1 from its proximal end (6), at least two
18 distinct elongated end portions (13, 14) which:
19 - in at least one rest position of the catheter extend
20 substantially parallel to the longitudinal axis of this
21 catheter, each over a predetermined length (L1, L2)
22 measurable between a free end (13A, 14A) and the dividing
23 point (12),
24 - are each made of flexible material so as to be
25 flexible at least under the effect of a lateral action
26 due to the displacement of a fluid,
27 - contain at least one segment of at least one of the
28 lumens (2, 3) and have at least one channel (7, 8) for
29 delivering and/or sampling the fluid.
- 1 2. The catheter according to claim 1, characterized in
2 that:
3 - the end portions have different lengths (L1, L2),
4 and

5 - the channels with which these end portions are
6 equipped are disposed so that each of them emerges at a
7 different level of the catheter.

1 3. The catheter according to claim 2, characterized in
2 that the channels with which the end portions are
3 equipped are disposed in a group on each end portion, and
4 these groups are disposed at different levels of the
5 catheter.

ABSTRACT

A multilumen catheter (1) of a type comprising two inner lumens (2, 3) defined by a wall (2A, 3A) for guiding a fluid (4), and two opposite ends (5, 6), namely a distal end (5) and a proximal end (6), characterized in that the distal end is formed of two elongated and discrete end portions (13, 14) located beyond a so-called dividing point (12) at a predetermined distance D1 from the proximal end (6), wherein said end portions, in a rest position of the catheter, extend parallel to the longitudinal axis thereof, each over a predetermined length (L1, L2) measurable between a free end (13A, 14A) and the dividing point (12), are each made of a flexible material, contain a segment of at least one lumen (2, 3) and have at least one channel (7, 8) for delivering and/or sampling the fluid.

French Language Declaration

POUVOIR: En tant qu'inventeur, je désigne l'(les) avocat(s) et/ou l'(les) agent(s) suivant(s) pour poursuivre la procédure de cette demande et traiter toute affaire la concernant supris du Bureau des Brevets et de Marques:

Harold L. Stowell, Reg. 17,233
 Edward J. Kondracki, Reg. 20,604
 Dennis P. Clarke, Reg. 22,549
 William L. Feeney, Reg. 29,918
 John C. Kerins, Reg. 32,421

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

Harold L. Stowell, Reg. 17,233
 Edward J. Kondracki, Reg. 20,604
 Dennis P. Clarke, Reg. 22,549
 William L. Feeney, Reg. 29,918
 John C. Kerins, Reg. 32,421

Adresser toute correspondance à:

KERKAM, STOWELL, KONDRACKI
 & CLARKE, P.C.
 5203 Leesburg Pike, Suite 600
 Falls Church, VA 22041

Send Correspondence to:

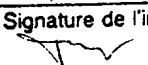

KERKAM, STOWELL, KONDRACKI
 & CLARKE, P.C.
 5203 Leesburg Pike, Suite 600
 Falls Church, VA 22041

Adresser toute communication téléphonique à:
 (Nom) (Numéro de téléphone)

(703) 998-3302

Direct Telephone Calls to: (name and telephone number)

(703) 998-3302

Nom complet du seul ou premier inventeur <u>POURCHEZ Thierry</u>		Full name of sole or first inventor	
Signature de l'inventeur 	Date <u>9-2-99</u>	Inventor's signature	Date
Domicile <u>172 Boulevard Jean Moulin</u> <u>62400 BETHUNE FRANCE</u> <u>FRX</u>		Residence	
Nationalité <u>Française</u>		Citizenship	
Adresse Postale <u>/</u>		Post Office Address	
Nom complet du second co-inventeur, le cas echeant		Full name of second joint inventor, if any	
Signature de l'inventeur 	Date <u>9-2-99</u>	Second Inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse Postale		Post Office Address	

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)

French Language Declaration

Je revendique par le présent acte le bénéfice de priorité étrangère selon Titre 35, du Code des Etats-Unis, §119 de toute demande de brevet ou d'attestation d'inventeur énumérée ci-après, et j'ai identifié également ci-après toute demande étrangère de brevet ou d'attestation d'inventeur ayant une date de dépôt antérieure à celle de la demande pour laquelle la priorité est revendiquée.

I hereby claim foreign priority benefits under Title States Code, §119 of any foreign application(s) for inventor's certificate listed below and have also below any foreign application for patent or inventor cate having a filing date before that of the applica which priority is claimed:

Prior foreign applications

Demande(s) de brevet antérieure(s) dans un autre pays:

Priority claimed

Droit de priorité revendiqué

(Number)
(Numéro)

(Country)
(Pays)

(Day/Month/Year Filed)
(Jour/Mois/Année de dépôt)

☐
Yes
Oui

☐
No
Non

(Number)
(Numéro)

(Country)
(Pays)

(Day/Month/Year Filed)
(Jour/Mois/Année de dépôt)

☐
Yes
Oui

☐
No
Non

(Number)
(Numéro)

(Country)
(Pays)

(Day/Month/Year Filed)
(Jour/Mois/Année de dépôt)

☐
Yes
Oui

☐
No
Non

Je revendique par le présent acte, le bénéfice selon Titre 35 du Code des Etats-Unis, §120 de toute(s) demande(s) américaines énumérée(s) ci-après et, dans la mesure où le sujet de chacune des revendications de cette demande n'est pas divulgué dans la demande américaine antérieure, de la façon définie par le premier paragraphe de Titre 35 du Code des Etats-Unis, §112, je reconnais le devoir de divulguer l'information pertinente selon Titre 37 du Code des Règlements Fédéraux, §1.56, toute information qui se présente entre la date de dépôt de la demande antérieure et la date de dépôt de la demande, soit nationale, soit internationale PCT.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56, which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)
(No. de Demande)

(Filing Date)
(Date de Dépôt)

(Etat)
(brevetée, pendante,
abandonné)

(Status)
(patented, pending,
abandoned)

(Application Serial No.)
(No. de Demande)

(Filing Date)
(Date de Dépôt)

(Etat)
(brevetée, pendante,
abandonnée)

(Status)
(patented, pending,
abandoned)

Je déclare par le présent acte que toutes mes déclarations, à ma connaissance, sont vraies et que toutes les déclarations faites à partir de renseignements ou de suppositions, sont tenues pour être vraies; de plus, toutes ces déclarations ont été faites en sachant que de fausses déclarations volontaires u autres actes de même nature sont sanctionnées par une amende ou un emprisonnement, ou les deux, selon la Section 1001, du Titre 18 de Code des Etats-Unis et que de telles déclarations délibérément fausses peuvent compromettre la validité de la demande ou du brevet délivré.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Declaration and Power of Attorney For Patent Application

Declaration Pour Demandes de Brevets Avec Pouvoirs

French Language Declaration

En tant qu'inventeur nommé ci-après, Je déclare par le présent acte que:

Mon nom, mon domicile, mon adresse postale, ma nationalité sont ceux qui figurent ci-après,

Je déclare que je crois être l'inventeur original, premier et unique (si un seul nom figure sur le présent acte) ou un des co-inventeurs, originaux et premiers (si plusieurs noms figurent sur le présent acte) du sujet revendiqué et pour lequel un brevet est demandé sur la base de l'invention intitulée:

dont la description
(cocher la case correspondante)

☐ est annexée au présent acte.

☐ a été déposée _____

Numéro de série de la demande _____

et modifiée le _____
(si approprié)

Je déclare par le présent acte avoir examiné et compris le contenu de la description identifiée ci-dessus, revendications y compris, et le cas échéant telle que modifiée par l'amendement cité plus haut.

Je reconnais le devoir de divulguer l'information qui est en rapport avec l'examen de cette demande selon Titre 37 du Code des Règlements Fédéraux §1.56.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MULTILUMEN CATHETER, PARTICULARLY

FOR HEMODIALYSIS

the specification of which

(check one)

☐ is attached hereto.

☐ was filed on _____ as

Application Serial No. _____

and was amended on _____
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

Applicant or Patentee: POURCHEZ Thierry Attorney's
Serial or Patent No: _____ Docket No. _____
Filed or Issued: _____
For: MULTILUMEN CATHETER PARTICULARY FOR HEMODIALYSIS

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention described in the above-identified: ☐ Patent ☒ Application

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

☒ no such person, concern, or organization
☐ persons, concerns, or organizations listed below*

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

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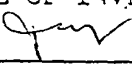
FULL NAME _____
ADDRESS _____
☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

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I acknowledge the duty to file, in this application or patent, notification of my change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

POURCHEZ Thierry

NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
		
Signature of Inventor	Signature of Inventor	Signature of Inventor
9-2-1998		
Date	Date	Date

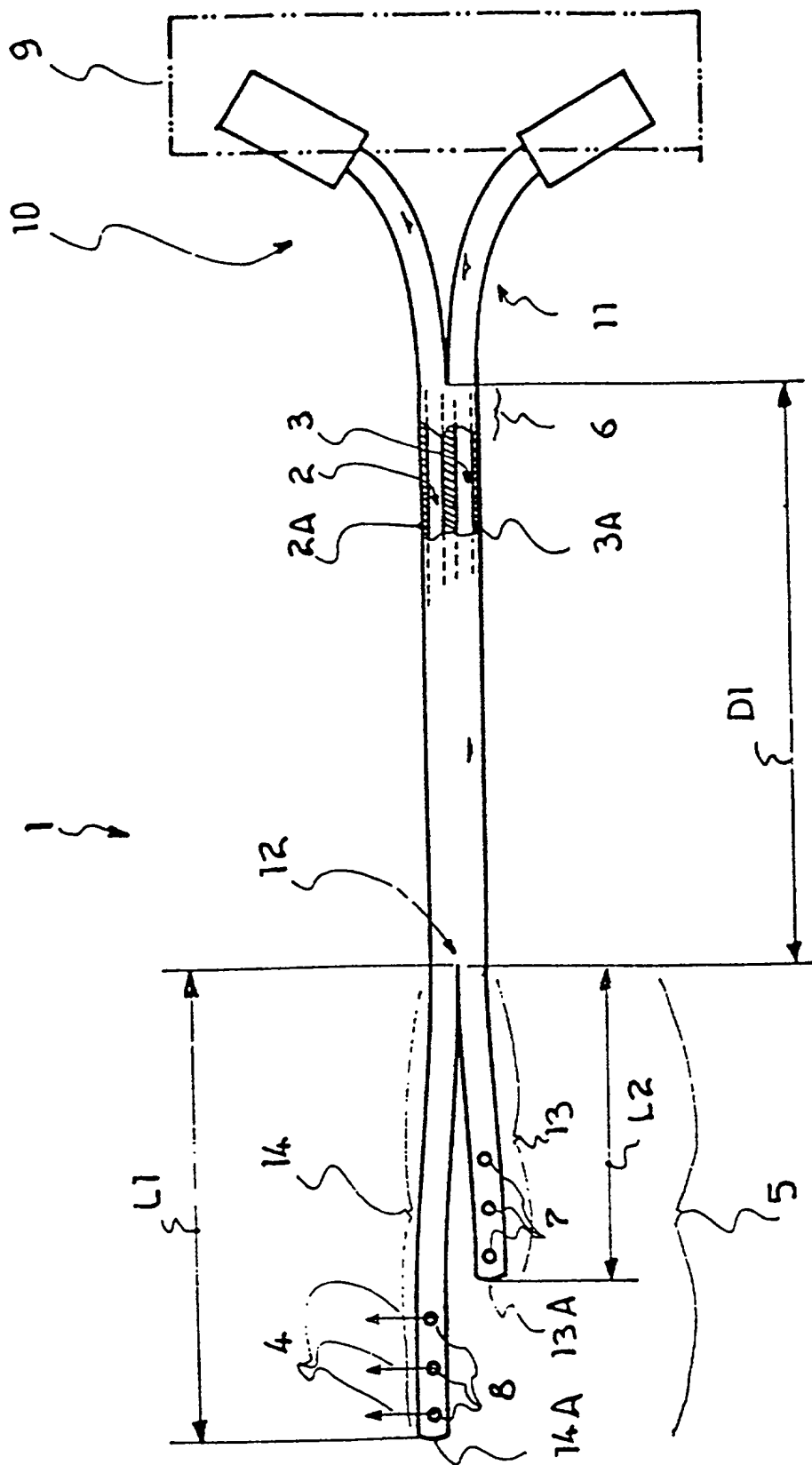


FIG. 1